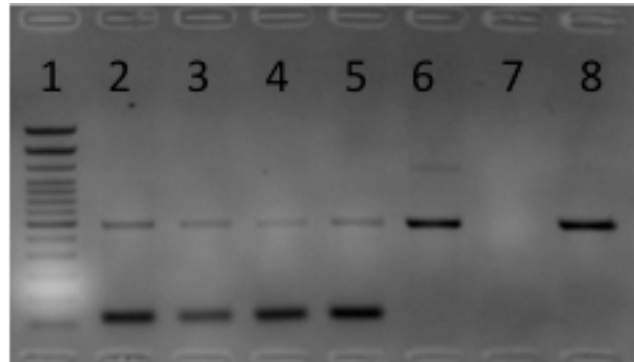


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	67972
MMRRC Strain Name	C57BL/6NTac- <i>Bcan</i> ^{em1(IMPC)H} /Mmnc
Gene Name(s)	brevican
Breeding Protocol(s)	Intra-Strain Mating
Protocol Date	8/23/2023

PCR Reaction

	<u>1X</u>
ddH ₂ O	12.5
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	1
DNA	2



Thermal Cycler:

Step 1: 94C, 5min
 Step 2: 94C, 45sec
 Step 3: 57C, 45sec
 Step 4: 72C, 60sec
 Step 2 to 4 Cycles: 30
 Step 5: 72C, 7min

1. 100bp Ladder (Invitrogen)
2. Heterozygous Sample
3. Heterozygous Sample
4. Heterozygous Sample
5. Heterozygous Sample
6. Wild-type Sample
7. Empty Lane
8. Wild-type Control

Taq: Apex Taq

Bands: WT: 589bp MUTANT: ~115bp

Primer sequences 5' to 3': Primers are 10uM with respect to each primer

Bcan(67972)F CTCTGGTCCTGACCCAAGC

Bcan(67972)R ACTTGACCCGGGAAAAC